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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/052,673	03/31/1998	RICHARD E. ANDERSON	11232	9401	
5	7590 07/15/2003				
PAUL J ESATTO, JR. SCULLY SCOTT MURPHY & PRESSER 400 GARDEN CITY PLAZA			EXAMINER		
			FAN, CHIEH M		
GARDEN CIT	GARDEN CITY, NY 11530		ART UNIT	PAPER NUMBER	
			2634	2634	
			DATE MAILED: 07/15/2003	DATE MAILED: 07/15/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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<b>————</b>	Application No.	Applicant(s)			
	09/052,673	ANDERSON, RICHARD E.			
Office Action Summary	Examiner	Art Unit			
	Chieh M Fan	2634			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute,  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	36(a). In no event, however, may a reply be tim  within the statutory minimum of thirty (30) days  will apply and will expire SIX (6) MONTHS from the country of the countr	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 29 A	April 2003 .				
2a) This action is <b>FINAL</b> . 2b)⊠ Thi	is action is non-final.				
3) Since this application is in condition for allowa	ance except for formal matters, pro	osecution as to the merits is			
closed in accordance with the practice under a Disposition of Claims	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
4)⊠ Claim(s) <u>1-5,7-10 and 13-15</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-5,7-10 and 13-15</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner					
10) The drawing(s) filed on is/are: a) accep	•				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)⊠ The proposed drawing correction filed on <u>05 September 2000</u> is: a)⊠ approved b)☐ disapproved by the Examine					
If approved, corrected drawings are required in reply to this Office action.  12) The oath or declaration is objected to by the Examiner.					
·	aminer.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the prior application from the International Bur</li> <li>* See the attached detailed Office action for a list of the prior application from the prior appli</li></ul>	reau (PCT Rule 17.2(a)).	-			
14) Acknowledgment is made of a claim for domestic					
a)  The translation of the foreign language pro-	visional application has been rece	eived.			
Attachment(s)	5 p	GHG/OF IZ I.			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)			
S. Patent and Trademark Office					

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1-5, 7-10 and 13-15 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Regarding claim 1, claim 1 recites "... determining the difference between the local and program clock frequencies, then adjusting the frequency at which the local clock oscillates so that the difference approaches zero." However, according to Figure 7 of the instant application, the adjusting step is performed only when there is difference between the values stored in the "PCR register 701" and "latched STC register 704". The specification of the instant application never teaches determining the difference between the local and program clock frequencies before the step of adjusting. The applicant may argue that determining the difference between the values of PCR and STC is equivalent to determining the difference between the local and program clock frequencies. The applicant is referred to the blocks "calculate difference in clock rate

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(frequency)" and "calculate difference in PCR and STC value" in Figure 9 of the instant application. It appears that "the difference in PCR and STC value" and "the difference in clock frequency" are not the same in the instant application.

Regarding claim **2**, the applicant is requested to indicate which portion of the specification has support on the following claimed limitations:

- (a) "maintaining a program clock value based on the program clock signals received at the decoder". In particular, which portion of the specification teaches that the decoder <u>receives</u> the program clock signals?
  - (b) the hardware also performs each step recited.

Regarding claim 3, the applicant is requested to indicate which portion of the specification has support on the following claimed limitations:

- (a) "determining the difference between the local and program clock frequencies, then adjusting the frequency at which the local clock oscillates so that said difference approaches zero". In particular, which portion of the specification teaches the step of determining the difference between the local and program clock frequencies before the step of adjusting?
- (b) "maintaining a program clock value based on the program clock signals received at the decoder". In particular, which portion of the specification teaches that the decoder <u>receives</u> the program clock signals?
  - (c) the hardware performs the steps recited in lines 4-16 of claim 3.

Regarding claim 7, the applicant is requested to indicate which portion of the specification has support on the following claimed limitations:

- (a) "means for receiving clock signal transmitted to the decoder at a program clock frequency". In particular, which portion of the specification teaches that the decoder receives the clock signals at a program clock frequency?
  - (b) the hardware performs each means recited in lines 3-15.

Regarding claim **13**, the applicant is requested to indicate which portion of the specification has support on the following claimed limitations:

(a) "means for determining if there is a difference between the local clock and the program clock frequencies, and means for adjusting the frequency at which the local clock oscillates, when there is a difference ...". In particular, which portion of the specification teaches the means for determining the difference between the local and program clock frequencies before the means for adjusting?

## Response to Arguments

- 3. Applicant's arguments/explanations filed 4/29/03 have been fully considered but they are not persuasive.
- (a). With respect to the examiner's question about claim 1, the applicant indicates that the difference in frequency is (program clock frequency local clock frequency), wherein

(STC - previous STC)/ (time elapsed) = local clock frequency

(PCR - previous PCR) / (time elapsed) = program clock frequency

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time elapsed = (PCR - previous PCR) \* 90KHz. (see page 8 of the amendment)

The applicant further argues that the difference between the local and program clock frequencies are determined by the difference between STC and PCR values (see page 9).

Examiner's response --- The applicant's explanation makes no sense to the examiner. According to mathematical expressions provided by the applicant, the program clock frequency will be:

(PCR - previous PCR) / ((PCR - previous PCR) \* 90 KHz), which is equal to 1/(90 KHz).

First of all, the applicant is reminded that 1/KHZ is not a frequency unit. Secondly, the difference in frequency (program clock frequency – local clock frequency) is then equal to:

1/(90KHz) - (STC - previous STC) / ((PCR - previous PCR) \* 90KHz), which is clearly not the difference between STC and PCR values.

(b). With respect to the examiner's question about claim 1, the applicant further argues that the step "calculate difference in clock rate (frequency)" on the left hand side of Fig. 9 uses previous stored STC and PCR values and step "calculate difference in PCR and STC values" on the right hand side of Fig. 9 uses recently received STC and PCR values. In both steps, however, the difference between the local and program clock frequencies are determined by determining the difference between

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STC and PCR values; and, moreover, both of these steps are done prior to adjusting the frequency at which the local clock oscillates. (see page 9 of the amendment)

Examiner's response --- The applicant's response makes the examiner very confused. According to the applicant, the step "calculating difference in clock rate (frequency)" is really calculating the difference of previous stored STC and PCR values. If that is the case, the step of the left should be marked as "calculate the difference of previous stored STC and PCR values". Further, the applicant seems to argue that the teaching of "calculating the difference between STC and PCR values" is equivalent to the teaching of "determining the difference between the local and program clock frequencies" (which does not appear to be correct according to item (a) above). The applicant is reminded that claim 3 (and similarly claim 7) of the instant application recites two different steps "determining the difference between the local and program clock frequencies" and "determining if there is an absolute difference between the local clock value and the program clock value". If these two steps are really equivalent, how can they be claimed separately? Lastly, the applicant is reminded Fig. 9 is directed to the software routine only. On the other hand, claim 1 recites using both hardware and software. Where is the teaching for the hardware part?

(c). With respect to claim 2, the applicant argues that the specification teach receiving the PCR data and the original claim recites the step "receiving clock time stamps at the decoder which specify the programs clock value and frequency". The specification therefore has support on "the decoder receives the program clock signals".

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Examiner's response --- The applicant is reminded that the examiner's question the program clock

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is which portion of specification teaches that the decoder receives the program clock signals. The examiner's question is not which portion of the specification teaches that the decoder receives the data specify the programs clock value and frequency.

Receiving the data that specify the program clock value and frequency is not equivalent to receiving the actual program clock signals.

(d). With respect to claim 2, the applicant indicates the word "absolute" is used to distinguish the difference between the difference between the PCR time stamp and the system time clock and the frequency difference between the local and program clock frequencies.

Examiner's response --- It is clear "the difference between the PCR and STC" and "the difference between the local and program clock frequencies" are different. The examiner does not think it is necessary to add an extra word to distinguish them. The term "absolute difference" is generally referred to the absolute value of the difference.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chieh M Fan whose telephone number is (703) 305-0198. The examiner can normally be reached on Monday-Friday 8:00AM-5:30PM, Alternate Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on (703) 305-4714. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Chieh M Fan Examiner Art Unit 2634

cmf July 12, 2003